ANNUAL REPORT

OF THE

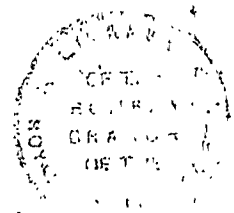
DEPARTMENT OF LAND RECORDS

IN THE

BOMBAY PRESIDENCY

(INCLUDING SIND)

1920-1921



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BOMBAY BRANCH
OF THE
Royal Asiatic Society.

No. A. D.—104.

Poona, 26th December 1921.

From

A. W. W. MACKIE, Esq., M.A., I.C.S.,
Acting Settlement Commissioner and Director of Land Records,
Poona;

To

THE SECRETARY TO GOVERNMENT,
Revenue Department, Bombay.

Sir,

I have the honour to submit the Annual report of the Department of Land Records for the year ending 31st July 1921.

CHAPTER I.

PREFATORY.

1. The charge of the Department was held by Mr. F. G. H. Anderson, M.A., I.C.S., throughout the year.

2. In the Northern Division Mr. C. D. Kavi held charge as Superintendent of Land Records during the year except for a period of two months—6th August to 5th October 1920—when he was on privilege leave and Mr. Manibhai Pragji Desai, Deputy Superintendent, held charge as Superintendent in addition to his own duties. In the Central Division Mr. V. B. Mardhekar was Superintendent throughout the year. In the Southern Division Mr. R. B. Kalelkar acted as Superintendent from 1st August 1920 to 1st January 1921, and Mr. E. Gawan Taylor was Superintendent from 2nd January to the end of the year.

3. Mr. Anderson toured in the districts of Thana, Ahmedabad, Belgaum, Dharwar, Karachi, Sukkur, Panch Mahals, Kaira, Surat, Ahmednagar, Poona and Satara, for inspection of city surveys, pôt-hissa surveys, village site surveys, Record of Rights, inam village surveys, District Survey Offices, Revenue accounts and arrangements of records in revenue offices, in addition to the inspection of Registration offices. Mr. Anderson also visited Baroda to frame in consultation with the authorities there a convention for settling the boundary between Baroda and British territory once for all in such a way that any future dispute will be practically impossible.

4. The Superintendents toured actively and extensively in their divisions controlling and testing the work of field parties, pôt-hissa surveys, city surveys, inam village surveys and record of rights, and performing the usual inspection of District Survey Offices.

CHAPTER II.

LAND RECORDS ESTABLISHMENT.

5. This staff was, as of recent years, assisted by large temporary parties of surveyors. In the Northern Division the pôt-hissa survey is coming to an end and so the staff there is small. In the Central Division, in addition to the permanent staff, 20 parties of 10 to 11 men each were employed on pôt-hissa survey. In the

Southern Division in addition to the permanent field party there were four temporary parties of 31 measurers in all employed on pôt-hissa work in Kolaba and Ratnagiri districts. The Land Records staff supervised the preparation and maintenance of Record of Rights, and carried out pôt-hissa and city surveys, and survey of inam villages on the minor triangulation method both for settlement purposes and for preparation of Record of Rights, assisted in settlement work, and kept all survey records corrected up-to-date. It was also employed in the maintenance of pôt-hissa and city surveys.

Training of Junior Civilians.

6. In the Northern Division one Assistant Collector, in the Central Division one Assistant Collector and one probationary Deputy Collector, and in the Southern Division one Assistant Collector, were trained in survey.

Training of Circle Inspectors.

7. In the Northern Division no class was held for training Revenue Circle Inspectors, as they are not required to do measurement work. Classes for training Special Measurer Circle Inspectors and men of pôt-hissa parties in theodolite survey were opened at Ahmedabad and Thana. In the Central Division a class was held at Satara in October-November in which 2 Revenue Circle Inspectors, 4 Measurer Circle Inspectors, one clerk from the Superintendent's office and one karkun from Kolhapur State were trained. The Measurer Circle Inspectors were trained in plane table survey, and sent on to do the field work of their charges. The rest after theoretical training were sent to village Goa in Satara for practical field work, where they measured 433 pôt-hissas for which survey fees were recovered from the occupants. Thus the cost to Government for the whole class was Rs. 17-5-2 only. All the candidates did well in survey. There was no Revenue paper examination as the two Revenue Circle Inspectors had already passed the Higher Standard Examination, and the rest, being men of Land Records Department, were not required to pass it. In the Southern Division no such class was held, none being necessary.

District Survey Offices.

8. The work of the Central Record Office, Ahmedabad, was quite satisfactory this year both in quality and quantity. This is, of course, mainly due to the Superintendent's strict watch upon that office, to his revision of the scales of work, and to his proper distribution of work among the members, combined with his monthly reviews, the result being that the office at the end of the year had got only 167 correction cases on hand. During the year the staff disposed of 1,462 correction cases as against 1,030 last year, and 1,800 miscellaneous cases. Rs. 1,021-15-9 were realised by sale of maps and extracts from survey records. Last year the tallying of akarbands with abstracts of Village Form I remained to be done in 47 villages. Of these the work in 14 villages has been completed, leaving 33 villages in arrears.

9. The Thana District Survey Office disposed of 224 correction cases and 1,445 miscellaneous cases during the year. The outturn is obviously poor; and as the present District Inspector has found the task of improving it beyond him, steps are being taken to place a specially selected man in charge. The Superintendent of Land Records used the same device of monthly reviews for this Office as he did for the Central Record Office, with the result that a slight improvement was apparent in the quality of work. Rs. 1,200-1-6 were realised from the sale of maps and extracts.

10. In the Central Division the Superintendent inspected in detail all the District Survey Offices, except Nagar:—

West Khandesh: The correction work is up-to-date. A regular scale of work in this as well as in all other District Survey Offices has been introduced and it is hoped that the improvement thereby effected will secure that all District Survey Offices will in future keep their routine work up-to-date. The Tab and Pigeon Hole Systems are working well. The records and staff of East Khandesh are now located here as there is no separate District Survey Office building at Jalgaon. Plans and estimates for a new building at Jalgaon

have been approved in Government Order No. C. W.—7482, dated 11th May 1921. When this building is ready and the staff and records of East Khandesh removed to Jalgaon the accommodation in West Khandesh office will be sufficient.

East Khandesh: The work of re-copying and repairing torn survey papers, on which three men are engaged at present, is nearing completion. During last rains the Special Measurer Circle Inspectors who were engaged in disposal of correction and other miscellaneous work, did, in addition to their routine work, the work of calculating area and assessment of portions of 425 survey numbers in acquisition cases and showed wells in 375 survey numbers in correction maps. There are no arrears of correction cases in this office.

Nasik: There was heavy correction work owing to acquisition and relinquishment of land in connection with Lake Beale. The correction affected 784 survey numbers scattered over seven villages in Igatpuri taluka. Added to this, there was the correction work due to revision of classification scale in 4 villages of Yeola for 771 survey numbers and 1,061 pôt-hissas. Now and then information has to be supplied to the special officer appointed to enquire into and propose revision of non-agricultural assessment. Railway acquisitions are more persistent in this district than elsewhere. However, the Head Surveyor, and the Special Measurer Circle Inspectors did a great deal during the recess to enable the District Survey Office to clear off the glut of work, and the latest returns showed only three correction cases in arrears. One Phalni Karkun has been attached to this office since December last for correction of mistakes in the old survey papers detected by pôt-hissa measurers. An extension of the accommodation is necessary in order to provide adequate room for the special measurers to work in during the rains, and also for the storage of the pôt-hissa survey papers. It is accordingly contemplated to remove the records and staff of this office to some revenue buildings.

Ahmednagar: The work of re-copying torn papers for which a grant of Rs. 500 was sanctioned by Government has been completed. The scheme of Special Measurer Circle Inspectors has been sanctioned by Government for this district but its introduction has been postponed on account of famine conditions in the district. One Phalni Clerk attached to this office has now been reverted, as there was not much work. Correction work is up-to-date.

Poona: Correction work is up-to-date. The District Survey Office has no special work on hand, except the work of agreeing village abstracts with akarbands which remains to be done in 36 villages.

Satara: The District Survey Office has on hand the correction work due to remission of patasthal assessment in Khandala petha. The work of survey correction due to old survey mistakes for which one Phalni Karkun has been attached to the office is nearing completion. The measurement and correction work is heavy in this district but relief can be had from the Special Measurer Circle Inspectors, in the monsoon, in whose strength an increase is also contemplated. Agreement of village abstracts with akarbands remains to be done in 13 villages, and also in 76 Fort villages in which changes were effected during the current year. Some accommodation is required in the record rooms for the new pôt-hissa papers. Also accommodation is required for the Measurer Circle Inspectors who come to head-quarters during the rains.

Sholapur: The District Survey Office has kept all kinds of work up-to-date. The work of agreeing village abstracts with akarbands remains to be done in one village only.

11. In the Southern Division the Superintendent inspected all the District Survey Offices and found no serious irregularity. All are reported to be working satisfactorily, and good results are expected in future from those District Survey Offices where old and rather inefficient District Inspectors have been displaced by young and energetic men recruited from the Land Records Department. The work was heaviest in Dharwar, Belgaum and Kanara and extra assistance from field party surveyors had to be given in the rainy season. The work of effecting agreement between village abstracts and akarbands has been completed in all districts except Kanara, where the close of the work is delayed by discrepancies found in the case of 13 villages.

The Tab and Pigeon Hole Systems are working satisfactorily. During the year under report 10,064 correction and other cases were received in the Southern Division District Survey Offices which disposed of 9,310 cases, leaving a balance of 754 cases. The balance is not serious; but I should like to see it reduced. The Central Division and Central Record Office, Ahmedabad, results are better.

12. The working of the District Survey Offices throughout the Presidency seems to me decidedly good, and is certainly better than at any previous time in their history.

District Inspectors.

13. The routine work of these officials is shown in statement IV. In the Northern Division the work of Kaira District Inspector again appears inadequate compared to the work of other District Inspectors of the Division. The Superintendent of Land Records reports that "the work of Messrs. Shukla (Surat) and Jetli (Broach) is very satisfactory. They take much interest in the work and are very hard working".

14. In the Central Division the Superintendent of Land Records reports that "most of the District Inspectors have done good work and have devoted much of their attention to effecting improvements in the methods of measurement, etc. The organization of a separate measuring staff in each district has thrown a good deal of responsibility on these officers. Particular mention may be made of the work of Messrs. Karmarkar (Nasik), Joshi (Sholapur), and Velhal (West Khandesh)".

15. In the Southern Division all the District Inspectors, except the former District Inspector of Bijapur and the District Inspector of Kolaba, are reported to have worked efficiently.

Measurement Work.

16. In the Northern Division temporary special measurers are employed on this work, relieving the ordinary Revenue Circle Inspectors. Proposals to appoint a permanent measuring staff in this Division have been submitted to Government. The work done by the temporary staff is given below:—

District.	Staff employed.	Measurement done.			Expenditure Pay, Travelling Allowance, etc.	Fees recovered including estimated cost of Government work.
		New hissas.	Private measurement.	Government work.		
			Survey Nos.	Survey Nos.	Rs. a. p.	Rs. a. p.
Ahmedabad ..	1 Special Measurer Circle Inspector, and 1 Circle Inspector from Revenue Department.	257	178	122	1,681 6 8	1,274 12 0
Kaira ..	6 Special Measurer Circle Inspectors.	3,910	192	436	5,719 12 1	5,651 0 1
Panch Mahals ..	1 Circle Inspector from Revenue staff.	391	64	297	796 4 9	1,174 4 0
Broach ..	5 Special Measurer Circle Inspectors.	3,489	216 330 (Hissas).	275 351 (Hissas).	4,331 0 4	4,718 15 10
Surat ..	6 Do. ..	5,513	360 54 (Road Survey Nos.)	28	6,088 0 1	6,934 11 11
Thana ..	3 Do. ..	24	612	234	2,434 11 4	2,239 8 0
Total ..	21 Special Measurer Circle Inspectors. 2 Circle Inspectors.	13,534	1,622 330 (Hissas). 54 (Road Survey Nos.)	1,392 351 (Hissas).	21,051 3 3	21,993 3 10

N.B.—The estimated cost of Government work in this as in the other cases is the amount of fees that would be recovered for it were it done for private parties.

17. The expenditure in all the districts is this year greater than last, although the staff was nearly the same, because the pay of the measurers was raised by 40 to 50 per cent. At first sight the staff seems to be self-supporting; but it is

not really so, as the figures of expenditure furnished by the Superintendent relate only to the field season and omit to take account of the time spent on record correction work (arising out of the field work) carried out during four to five months in the rains. Accordingly, this year's results really show that the fixed fees for measurement work, based as they are on pre-war rates of pay *plus* temporary and provisional allowance, requires drastic revision. This has already been done provisionally, and at the same time the Superintendents have been asked to draw up an analysis of the work done during the year and of the expenditure in such a way that it will afford a secure basis for fixing fair rates of fees.

18. In the Central Division a permanent measuring staff was employed in all districts except Ahmednagar, where although a permanent staff has been sanctioned by Government, it is not entertained on account of famine condition in the district. The work turned out by the staff is given below :—

District.	Staff employed.	Measurement Work.					Expenditure—Pay, Travelling Allowance, etc.	Fees recovered including cost of Government work.	Remarks.
		Arrears of past year.	Received during the year.	Disposed of	Balance.	New hissas measured.			
		Survey Nos. New Hissas.	Survey Nos. New Hissas.	Survey Nos. New Hissas.	Survey Nos. New Hissas.		Rs. a. p.	Rs. a. p.	
East Khandesh ..	1 Head Surveyor ..	104	1249	1261	92	1,320	7,785 11 6	2,622 12 0	
	6 Measurers ..	26	340	366					
West Khandesh.	1 Head Surveyor ..	50	311	337	33	1,664	5,459 0 0	2,621 12 0	In addition the classification of 81 Survey Nos. and 15 hissas was received and that of 83 Survey Nos. and 12 hissas was disposed of leaving in balance. classification of 8 Survey Nos. and 3 hissas.
	6 Measurers ..	12	124	132	4				
Nasik ..	1 Head Surveyor ..	34	3090	3050	74	1,672	8,296 0 0	7,451 0 0	In addition classification of 13 Survey Nos. and 4 hissas was received during the year out of which 12 Survey Nos. and 2 hissas were disposed of leaving 1 Survey No. in balance.
	7 Measurers ..		3190	3190					
Ahmednagar ..	Revenue Circle Inspectors.	84	285	191	178	Special measuring staff not yet employed.			The figures include classification work also.
		32	156	69	119				
Poona ..	1 Head Surveyor ..	325	2440	2162	603	..	5,706 4 11	3,129 12 0	Classification of one Survey No. was in arrears. During the year the classification of 59 Survey Nos. and 23 hissas was received while 29 Survey Nos. and 23 hissas were disposed of leaving 31 Survey Nos. in balance.
	7 Measurers ..	175	1614	1427	362				
Sholapur ..	1 Head Surveyor ..	310	1079	1127	262	209	7,321 2 0	2,740 5 0	Includes classification work also.
	6 Measurers ..		535	486	49				
Satara ..	1 Head Surveyor ..	239	2507	2197	619	739	8,601 10 7	3,838 5 0	Classification of 44 Survey Nos. and 2 hissas was received during the year. 23 Survey Nos. and 2 hissas were disposed of leaving 21 Survey Nos. in balance
	7 Measurers ..	57	1978	1879	156				
	Total ..	1155	10961	10325	1861	5604	43,179 13 0	22,403 14 0	
		302	7937	7549	690				

19. Here the expenditure shown includes the pay of the staff during the rainy season when record correction work is carried out ; and this is generally fair, though not always, for the record correction work done does not always pertain wholly

to the work of this staff. But the expenditure also includes the whole of the cost of the head surveyors and their peons, and this is not legitimate, as only a portion of the head surveyor's time is devoted to supervising the work of this staff. At the same time it remains evident that the rates of fees based on the rates of remuneration in force before the recent revision require to be raised, and this has already been done provisionally as in the Northern Division. The District Inspectors were asked to see that the time spent in travelling by this staff is curtailed as much as possible by laying down, before the fair season, a carefully planned programme of their tour and work. Measurement work in this division seems to be increasing, and perhaps an increase of the staff will be necessary. For the Satara district the Superintendent has asked for two extra measurers.

20. In the Southern Division there are 46 Special Measurer Circle Inspectors, of whom 14 are temporary and the rest permanent men; two Revenue Circle Inspectors in Belgaum, and two in Kanara, also did measurement work; while in Dharwar all the Revenue Circle Inspectors were given two measurement cases each. These men had to measure 7,877 survey numbers and 22,022 new hissas, and to do classification work of 704 survey numbers. During the year 6,609 survey numbers and 17,246 new hissas were measured and 683 survey numbers classified, leaving 1,268 survey numbers and 4,776 new hissas to be measured and 21 survey numbers to be classified. These arrears are heavy. They are mainly due to the amount of work to be done in Belgaum district not having been ascertained till it was too late for the Superintendent to comply with the District Inspector's request for extra help. Similar mishaps will no doubt be avoided in future. The Superintendent reports that the fixed fee system is working satisfactorily but is not yet able to give figures of expenses and returns. As elsewhere in the Presidency the fees have been raised provisionally.

21. It will be seen from the foregoing paragraphs that, this year as in past years, figures of work done, etc., in each division are not reported in a uniform manner; nor are the figures from all districts in the same division always uniform. In connection with the compilation of this report I have investigated these points, and arrangements have been made so that from next year it will be possible to exhibit the work done, the fees recovered, and the expenditure on it in a more satisfactory fashion, which will in particular bring out accurately how far the fees for private work balance the expenditure on it.

22. Statement II when compared with that for last year shows that measurement work has increased in all the Districts except Thana, Ahmednagar, Bijapur and Kanara, and that the out-put this year is also greater than last year in most of the districts. Thana again shows heavy arrears. The Superintendent of Land Records reports that these arrears are mainly due to inefficiency and insufficiency of the measuring staff, and want of proper supervision, and to unforeseen urgent work, like survey for quadrupling the Tansa main, which had to be undertaken. The measuring staff cannot be increased within short notice, since, the work being technical, expert hands cannot be procured at once and recruits are few. Next year it is proposed to increase the measuring staff.

Circle Inspectors.

23. Statement I shows the work of these officials. Compared with last year this year's statement shows a falling off in their work specially in the checking of Record of Rights. This general decline is probably due to census operations, scarcity, and the strike of talatis in certain districts. As an exception to this general decline, there is an increase from 8,209 to 9,195 in the grand total of tagai works examined. This increase arises from striking increases for Belgaum and Bijapur districts, due presumably to increased distribution of tagai owing to poor crops.

24. Statement III shows the inspection work of Sub-Divisional Officers and Mamlatdars.

Owing to scarcity, the talatis' strike and census operations the amount of work done this year was less than last in most districts, and the totals for the Presidency have fallen for all items except the number of villages visited. The decrease is greatest, perhaps naturally, under the head of Boundary Marks, the repair of which readily suggests itself for suspension when one or other item

must be sacrificed. The work was suspended in ten districts, in some of which however some Sub-Divisional Officers and Mamlatdars inspected boundary marks, which I presume remained over for inspection from the preceding year. The figures under Record of Rights are again illegitimately swollen in some districts where re-writing was in progress, but the record for the year for the number of entries tested falls to Ahmednagar where this explanation does not apply. There famine relief operations no doubt necessitated the verification of an unusually large number of entries. There was a slight increase in the number of villages visited. To this increase the most striking quota is supplied by Thana, where, however, the number visited was not excessive. The District Deputy Collector W. D. Thana ought to have been able to inspect the Circle Inspectors' crop and tenancy record test work in at least some of the 226 villages visited by him.

Boundary Disputes.

25. Two petty cases of boundary disputes with Baroda were settled by the District Inspector of Ahmedabad and 6 by the District Inspector of Panch Mahals. The settlement of such disputes has for the most part been kept in abeyance till the convention referred to in paragraph 3 above has been agreed to by the two Governments. Mr. Anderson visited Baroda in December in this connection and he has submitted his report in the matter to Government.

Measurement of Sub-divisions.

26. This work consists of (1) general measurement of all sub-divisions for the first time and (2) measurement of new sub-divisions that have been formed after the original measurement and which has been described under the head "measurement work", as it is being done by Special Measurer Circle Inspectors side by side with ordinary private and Government measurement work.

27. *Northern Division.*—Gujarat. Pot hissa survey was done this year in Dohad and Jhalod taluka of Panch Mahals, and Dholka, Sanand, Dhandhuka, Gogo and Viramgam talukas of Ahmedabad, by 5 parties, who have almost completed their work. In all 72,532 hissas in 305 villages were measured. The minor triangulation method was adopted in 8 villages where pôt-hissa survey was to be done in large blocks. The average outturn per day is 12·6 hissas as against 13·3 of last year. The average cost per hissa comes to 12·65 annas as against 8·06 annas of last year. The increase, which was anticipated, was mainly due to the revised grades of pay which have been in effect throughout the year as compared with only one month during the preceding year. This cost does not include the labour charges which had to be incurred in some villages.

The work was tested by the Superintendent and the Deputy Superintendent of Land Records and found to be satisfactory.

28. The office work in connection with the survey of seven villages of Ahmedabad Suburban survey was completed and demand statements of Rs. 12,306 have been sent to the Collector.

29. In Thana, on account of the deputation of many experienced hands to Bombay Suburban district, only 4 parties could be formed and they measured and mapped in 181 villages 33,201 hissas and examined 39,071 entries in Record of Rights. The cost per hissa is Re. 1, the increase over 14 annas 5 pies in the previous year being due to the increase in the pay of surveyors. The average outturn per day comes to 7·1 hissas. The Superintendent tested the work of all parties. Recovery statements to the amount of Rs. 10, 160-10-6 were sent out to talukas and Rs. 43,232-1-6 including arrears of previous years were collected during the year. The progress is satisfactory.

30. In the whole of the Northern Division during the year under report, expenditure amounted to Rs. 92,961-15-8 and Rs. 95,701-15-1 were recovered and the total balance at present which remains to be recovered and for which demand statements have been sent is Rs. 73,210-13-2. The work has still to be done in Prantij taluka and Modasa mahal of Ahmedabad district, and in 29 villages of Viramgam taluka of the same district.

31. *Central Division :*—The year under report began with 17 parties of 216 surveyors, and all were engaged on the recess work of calculating areas and distributing assessment over sub-divisions measured during the previous fair season, and on preparing extracts of maps to be supplied to Kabjedars. To expedite the pôt hissa and other survey work, three classes were held, one in Poona and two in

Satara, to train recruits. 30 out of 36 candidates came out successful in the test. Rs. 280-2-0 were spent on these classes. One more class to impart instructions in theodolite and computation, etc., was also opened in Poona to train some 10 promising hands, as it was considered necessary to have trained hands for the survey of any unsurveyed inam villages in Khed and Mawal talukas on the minor triangulation system, and the expenditure incurred was Rs. 700. These trained recruits were scattered over all parties, so that at the break of fair season 18 field parties and two head-quarter parties (one at Poona and one at Satara) were formed. The work of the two head quarter parties, working under the supervision of the Survey Mamlatdar, Mr. Sane, was to clear off arrears of recess work of 1919-20 and to prepare extracts and maps for kabjedars till the end of July 1921 ; and thereafter, they, together with some new recruits, were put on the work of preparing akarbands of talukas of which second revision settlement has been sanctioned by Government. This arrangement continued till the end of October 1921.

32. The field season of 1920-21 opened with 18 parties, but two parties, one early in April and one in the middle of May, were abolished owing to the deputation of some measurers to city surveys, etc., and also owing to the absence of one of the Survey Mamlatdars on sick leave. Mr. Sane was in charge of 8 field, and 2 head quarter parties and Mr. Parchure was in charge of the remaining 8 parties. Mr. Parchure and his parties who were sent to Akola, Igatpuri and Nasik, had to encounter innumerable difficulties in plane table survey in the hilly and unhealthy tracts of those places. Nevertheless the whole work was done by plane table which especially in hilly tracts yields far more accurate results than chain and cross-staff. The parties under Mr. Sane worked mainly in the Satara district.

33. The field parties measured and mapped 187,780 hissas as against 142,095 hissas last year. They also did the recess work of distributing assessments over 152,616 sub-divisions, and in addition to this the head quarter parties prepared pôt hissa maps to be given to kabjedars of 384,725 hissas. The work was tested by Nimtan dars whose percentage of test ranges from 18·9 to 26·8, which is adequate. This is, of course, apart from the tests taken by Survey Mamlatdars both in the field as well as in the recess work, who took tests in 5,189 hissas. The Superintendent also inspected all the parties. Rs. 1,295 were earned as bonus as against Rs. 590 last year. The average cost per hissa measured comes to 5¼ annas and for recess work 5½ annas ; the total thus being the same as last year.

34. A local party consisting of one Nimtandar and ten measurers was maintained throughout the year in East Khandesh under the supervision of the District Inspector of Land Records, and did the work of distributing assessment over 5,752 sub-divisions till the middle of November 1920, and in the fair season measured 8,885 new sub-divisions in 264 villages in Jamner, Pachora, Erandol, and Bhadgaon. The average cost per hissa for measuring comes to 7 annas 8 pies, while for recess work it is 4 annas 8 pies, both of which amounts are less than those for last year.

Special phalni measurers were deputed to talukas in each district (except Nagar) where the original sub-division survey has been completed, to bring up to date the new hissas which have cropped up. They have now been reverted to the phalni establishments. These measurers, numbering about 36, have measured 5,674 hissas.

In the case of the original hissa survey the expenditure during the year is Rs. 1,39,437-5-1 and the amount recovered inclusive of past arrears is Rs. 29,771-7-1. In the case of revision hissa survey the total expenditure during the year is Rs. 10,745-12-9 and the amount recovered is Rs. 6,067-13-6. Demand statements to the amount of Rs. 1,48,165-2-9 have been issued. Recoveries were small on account of the poor season.

35. One special party was maintained throughout the year to finish the pôt hissa survey work of 13 villages round the Deolali Cantonment on the minor triangulation system. This party in addition did the pôt hissa work of 10 more adjoining villages by the plane table method, measuring 6,906 hissas in 1,486 survey numbers, and 152 entire survey numbers. Also detailed measurement of 591 properties in the triangulated village-site areas was done by this party. In the rains they plotted 155 T. Stations and completed the recess work of 6,072 hissas up to the end of July 1921. The total expenditure on the Deolali Cantonment survey up to now is Rs. 18,832-13-7. The District Inspector of Land Records, Nasik, supervised and tested the work of this party.

36. A small party under Mr. Sane was organised to carry out a complete survey of all the lands coming within a radius of one mile from the Railway Station in all directions on the minor triangulation system at Kurduwadi (Sholapur) for Record of Rights purposes. The pôt-hissa survey in the remaining area of the village was also carried out by the party, who in all plotted 66 T. Stations, and measured 6,670 hissas and 48 entire survey numbers by plane table, in addition to the detailed measurement of 655 houses and 471 properties (such as open plots, etc.).

37. In November 1920 a small party was organised to carry out a complete survey of all the agricultural land in six unsurveyed inam villages, 2 in Khed and 4 in Mawal taluka of Poona, for the preparation of Record of Rights. In all 3,859 hissas in 534 survey numbers and 325 entire survey numbers were measured, in addition to the recess work of 1,596 hissas. The total expenditure incurred during the year is Rs. 6,409-14-5. This survey of agricultural lands includes the sub-division survey also.

38. In all these operations it has been found that the indifference of the kabjedars and the apathy of the village officers have done much to arrest the progress of hissa survey work. The average outturn per measurer per working day varied from 7·5 to 11·3 hissas in all the parties, while the average outturn on the total output of all parties comes to 8·5 hissas per working day.

39. Original pôt hissa survey still remains to be done in 1 taluka, 2 pethas and 39 villages of Poona district, 2 talukas and 24 villages of Sholapur, 6 talukas and 1 petha of Satara, and 3 talukas of Nasik.

40. *Southern Division.*—Original pôt hissa measurement work was done in Ratnagiri and Kolaba. This work has now been completed in the whole of Karnatak and in Ratnagiri with the exception of the villages of Kadwai and Holi. The present party of 40 measurers and Nimtandars will take 2 years to complete the work in Kolaba. During last monsoon the whole party, which was 3 times the size of the present one, was engaged on the recess work of Khed taluka and did the work of 57,782 hissas. The cost of this recess work is Rs. 56,877-2-4 and the total cost per hissa comes to Re. 0-15-4 which is satisfactory considering the increased pay. In the fair season the reduced party was employed on field work in Alibag and measured 34,866 hissas in 167 villages. The total cost both for field season and the estimated barsat work is Rs. 30,250 so that the approximate rate per hissa comes to Re. 0-14-0. Hired labour had to be employed in 94 out of 167 villages measured, the rates of labour varying from 6 to 10 annas per day per man, and on this account Rs. 6,020-10-0 must be added to the total cost just given. The work was economically managed by insisting on output being up to a fixed scale. The amount of demand to be recovered in Belgaum, Kolaba and Ratnagiri—there are no arrears of Bijapur and Dharwar—was Rs. 99,524-2-4, of which Rs. 44,372-15-10 have been recovered. The balance in Kolaba and Ratnagiri was unduly large owing to difficulties experienced by Mamlatdars in making recoveries in areas where the talatis were on strike. The same cause, as also the Census operations, interfered with the verification by talatis of kabjedars' names written on the sheets by the plane tablers, which was only accomplished in 2,862 hissas in 17 villages of Alibag.

41. In the matter of output of work, the Konkan districts were found to be behind the Gujarat districts. After personally investigating the reasons the Survey Mamlatdar, Konkan, Mr. Bhagwat, who was sent to Panch Mahals to study the working there, explains the difference in the output as follows:—

> "The Konkan tract is hilly and rugged and is difficult of access. In Gujarat the ground is plain and flat, and so measurement by plane table is easier there than in Konkan. The measurers in Gujarat are more amenable to discipline than those in Konkan, who look more to their pay than to work. The climate in Konkan, being very hot, does not allow a measurer to work for as many hours in the field as in Gujarat. Lastly the scale of fixed work in Konkan is defective. And it is very difficult to secure at the right moment co-operation and assistance from the kabjedars and land-holders."

42. This year, it may be noted, on account of the talatis' strike the Collector employed 42 measurers as talatis, thus reducing the strength of the parties.

43. *General Remarks.*—In all 3,45,814 hissas were measured during the year compared with 3,23,366 of last year. The output is satisfactory. Also 52,888 new hissas were measured as against 53,974 of last year. The maintenance of the pôt hissas survey is receiving special attention.

CHAPTER III.

Survey and Settlement.

Revenue Survey.

44. *Northern Division.*--The sanctioned strength of the Gujarat field party is now 9 surveyors. Out of these, 2 were on deputation to city surveys, 2 to pôt-hissa surveys, and one was placed at the disposal of the Assistant Settlement Officers, Messrs. Hartshorne and Kirpalani, to assist them in settlement work. Of the remaining four, one did the survey of 31 miles of the Dhandhuka-Dholka Railway in Ahmedabad, putting down 225 theodolite stations, the survey of 4 miles of Dharasana-Chharvada Road in Surat, and measurement work in connection with the Taiyabpur mining lease in Kaira. Another did the survey of Olpad-Karanj Road in Surat and Petlad-Bochasan Railway in Kaira. Two men did important measurement and classification work in Ahmedabad, Kaira and Surat, measuring 951 acres in 793 survey numbers, and classing 1,998 acres in 611 survey numbers.

The Thana field party consists of three hands, of whom one did urgent road survey work in Murbad, and other important measurement work, and two did the theodolite survey of the village site of Andheri, and of quadrupling the Tansa main of 7 miles in 6 villages and of the Town Planning Schemes in Salsette. Apart from the theodolite work, this party measured 337 acres in 285 survey numbers, and classed 361 acres in 85 survey numbers. Besides the above, the Andhra Valley Transmission Line Survey was done on behalf of the Tata Hydro-Electric Supply Company, in which lands in 21 villages were measured. The outturn of Gujarat field party surveyors is upto scale; but the work of Thana surveyors is not adequate, partly due to local difficulties and partly due to carelessness, and want of local supervision.

45. *Central Division.*—From the beginning of the year 24 measurers and surveyors of the Central Division field party were employed on Government work, the rest being assigned to paid work. In June last the number employed on Government work was raised to 26, and they were employed on the original and revision survey work of Inam villages in Poona, Nagar and Nasik districts. In the monsoon of 1920 this party did the recess work of 7 villages. In the field season the party did measurement and classification of 22 villages nearly completely. The Superintendent of Land Records inspected most of the villages during the operations. One measurer of the party was deputed on the special work of removing encroachments on roads in Walva taluka (Satara). The party measured 66,687 acres in 4,678 survey numbers and 7,183 hissas in 25 villages. This includes the theodolite work of 240 stations and 1,235 angles. The classification work done by the party was over an area of 69,325 acres in 12,260 survey numbers. The whole work was closely tested by the Head Surveyors. The total cost of this work done during the fair season *plus* the estimated cost on recess work till the end of October comes roughly to Rs. 32,167-2-5 inclusive of the cost incurred last year for all these villages. Besides this cost, Rs. 4,455-11-0 for stones, and Rs. 3,983-13-0 for labour, have been spent, which with the survey fees amounting to Rs. 3,290-4-0 on account of measurement of pôt hissas, will be recovered from the kabjedars. The average cost to Government per acre comes approximately to 7 annas, which is less by 5 annas than that of last year, the reason as adduced by the Superintendent being that this year most of the villages were dealt with on the Partial System.

46. *Southern Division.*—The Karnatak field party consisted of 27 permanent and 42 temporary surveyors, 4 learners and 4 clerks; while the Konkan party consisted of 13 permanent and 45 temporary surveyors and 2 learners. These surveyors were distributed among the various special works in progress, such as (1) Inam Surveys in Bijapur district, Survey of Bavda State villages, Bivalkar and Here Jahagir Surveys; (2) City Survey work of Athni, Hubli and Bijapur;

(3) original hissa survey work in Khed and Alibag and (4) upkeep of hissa survey work in Dharwar. Besides, 10 men were engaged in Sanad writing work in Dharwar, Navalgund and Guledgud, and 5 men in revision of property registers in Gadag.

47. The most important revenue survey work was the Bijapur Inam Survey for the introduction of the Record of Rights. The monsoon work of the 1919-20 field work was done by a party of five. Three parties of 23 surveyors under 3 Head Surveyors went into the field in November 1920. The survey was confined to those villages where the Kulkarni's pay was found adequate to ensure proper maintenance of new records, as in the absence of strict maintenance such a survey loses most of its value. Hence only 74 villages of the Athni taluka out of a total of 151 were completely surveyed by parties reduced from 23 men to 15 in February, and in all 343 whole survey numbers in which there were no hissas and 10,789 hissas in 3,057 survey numbers were measured. The cost up to date has come to Rs. 9,790. Free labour was supplied in all villages except 7. This work was not done on the minor triangulation system as these villages were found to have been surveyed in the past presumably for fixing Judi and this survey was found to be sufficiently accurate, so that it was only necessary to do pôt hissa measurement. The work was progressing satisfactorily but had to be stopped owing to the lodging of suits by the Inamdars of Indi under a misapprehension caused by a wrongly worded notice issued by the District Inspector, Mr. Laxmeshwar, which led the Inamdars to believe that settlement was proposed to be introduced in their villages. It is expected that they will be disillusioned when the suits, which they have persisted in lodging in spite of all explanations, come up for trial. The next work in importance is the Here Jahagir village survey in Belgaum. Field work was resumed on 1st December 1920 and continued till late in June 1921, the party employed being seven surveyors under one Head Surveyor. Measurement and classification work of six villages out of 23 has been completed; eight villages have been measured only and 9 villages still remain untouched. This work, which is done at the cost of the Jahagirdar, is likely to occupy another two seasons. The cost up to date is Rs. 5,668 which has been met by a credit of Rs. 6,000 by the Court of Wards. In 10 villages 512 T. stones have been laid and 284 survey numbers and 1,910 hissas measured. Classification was done in 292 survey numbers and 1,855 hissas.

48. The survey of 13 villages of Bavda State at the cost of the Chief of Bavda was continued. Four villages have been completed, two are partly done and seven remain to be taken up. The working party consisted of 8 surveyors under one Nimtandar. Up to date 5,519 hissas have been measured and 4,535 acres classified. The cost has come so far to Rs. 8,293 which has been met by a credit of Rs.11,500 by the Chief of Bavda.

49. Lastly, the Biwalkar Jahagir Survey in the Panwel taluka for settlement purposes began on 1st December 1920: the progress was somewhat hindered on account of the Jahagirdar's reference to Government for restoration of his Jahagir. 763 hissas were measured in 3 villages. The total cost of the survey during the year was Rs. 1,480-14-8. Of the 16 villages to be done only 4 remain, and three of these have been partly done.

Settlements.

50. *Northern Division.*—Original settlement proposals for two inam villages of Charal and Vasodra in Sanand taluka (Ahmedabad) were submitted to the Commissioner, N. D. Revision Settlement proposals for North Daskroi and Dholka are under preparation: and those for South Daskroi and Dhandhuka are under consideration of the Collector and Commissioner respectively. Revision settlement proposals for the lease-hold village of Chandna, taluka Matar, were sanctioned by Government.

51. *Central Division.*—Settlement reports for 19 inam villages — 15 of Purandhar (Poona), and one in each of Haveli and Mawal (Poona), Javli (Satara) and Kalvan (Nasik), were compiled and submitted by the Superintendent. Proposals for Shingapur, Waghapur, Kumbharvalan, Supe, Ekhatpur, Met-talia, Amble and Dhadre were sanctioned, and proposals for the inam villages of Ambi and Pachwad submitted last year were also sanctioned. Settlement rates were introduced in 682 Government villages of Peint, Malshiras, Bhusawal, and

Jamner talukas and Edlabad Petha, and 42 inam villages of Purandhar, Sangamner, Wai, Javli, Mawal, and Kalwan talukas. Of these 4 were for original settlement, 7 for first revision and 713 for second revision. Original and revision akarbands of Government and inam villages numbering 772 were prepared by a special party, of which work adequate test was taken by the Superintendent. The revision proposals for the Government villages in Jalgaon taluka (East Khandesh) have been sent by the Assistant Settlement Officer to the Collector.

52. *Southern Division.*—Original settlement proposals for inam villages of Hallur and Chondi in Muddebihal taluka and Tignibidri in Bijapur taluka are under preparation. The Superintendent of Land Records visited the former two villages and collected necessary information. Revision settlement proposals of Rajapur and Deogad talukas in Ratnagiri and of Karjat and Khalapur (Petha) in Kolaba were submitted to the Collectors by the Assistant Settlement Officers.

CHAPTER IV.

City Surveys.

53. *Northern Division.*—The original city survey and enquiry work of Kapadwanj and Bulsar have been completed and property registers are ready and maintenance surveyors have been entertained. Survey and inquiry operations in Ahmedabad, which is the most important town in the division, are making satisfactory progress. The city survey of Cambay under the supervision of the Superintendent of Land Records is also in progress. The revision city survey work of Broach was making rather slow progress but is now showing some improvement.

54. The maintenance work of 12 city-surveyed towns in the Northern Division is going on satisfactorily as may be seen from the following table of review work done during the year and instructions in the matter have been issued to the District Inspectors. The Bandra maintenance surveyor could obviously devote some of his time to other work, and this is being looked into :—

Cities.	Properties.		No. of stones.		Remarks.
	Total.	Reviewed.	Total.	Inspected.	
Bandra	2,091	3,815	654	268	Many properties came under review twice.
Godhra	7,738	2,365	913	56	
Viramgam	7,256	1,434	1,623	532	
Thana	2,787	2,319	892	268	
Nadiad	10,733	3,628	2,323	741	
Anand	2,928	859	751	204	
Borsad	5,193	1,645	881	294	
Umreth	7,546	2,000	289	129	
Kapadwanj	6,767	610	209	61	Maintenance was in progress during only a portion of the year.
Bulsar	4,963	710	255	39	
Kalyan	3,482	694	208	146	
Bhivandi	3,163	492	186	85	

Sanad fees remain to be recovered as shown below :—

	Rs.	a.	p.
Kaira—4 towns	6,932	5	1
Surat	5,415	6	5
Thana—3 towns	6,259	2	2

55. *Central Division.*—The City survey and enquiry work of Satara, Amalner, Bhagur and of the unsurveyed portion of the Poona Suburban area, which was accidentally left unsurveyed, has been completed, and maintenance work has been taken in hand. In Pandharpur the survey and enquiry have been completed and Government orders for a maintenance establishment are awaited. In Shirpur, Vambori and Erandol the survey has been completed and enquiry is in progress. In Dharangaon and Karad the survey is in progress. In the revision of Ahmed-

nagar city survey the survey has been completed and Government orders for appointing an enquiry officer are awaited. In the case of Pandharpur, Amalner, Shirpur and Bhagur the period of enquiry as originally estimated had to be extended owing to the increase in the number of properties that came to light during survey. The work of tracing of maps has been completed in the case of Satara, Poona Suburban city-surveyed area, and in the case of Amalner and Bhagur it is in progress.

56. Maintenance work is going on satisfactorily as will be seen from the following :—

Cities.	Properties.		No. of stones.		Remarks.
	Total.	Reviewed.	Total.	Inspected.	
Ahmednagar	7,329	1,946	1,160	735	
Sholapur	11,031	7,090	3,153	552	
Barsi	4,309	2,310	1,180	351	
Jalgaon	3,182	2,762	829	143	
Bhusawal	4,402	3,029	125	54	
Dhulia	4,569	2,557	1,550	279	
Nandurbar	2,914	984	796	157	
Poona and Poona Suburban	15,620	4,420	2,087	16	
Nasik	5,877	1,992	683	188	
Yeola	5,103	2,258	120	50	
Manmad	1,039	1,039	239	147	
Igatpuri	1,350	1,004	213	101	
Bhagur	1,086	373	31	..	
Satara	9,005	350	554	..	Maintenance in progress during a portion of the year only.

57. *Southern Division.*—The principal work was the revision city survey of Hubli. A party of 8 measurers under one head surveyor has measured 8,621 properties out of the estimated 12,000. The detail work is likely to take another fair season to complete. The cost up to end of July is Rs. 6,133-11-9 and the total estimated cost of Rs. 20,000 is likely to be exceeded by an unforeseen increase in the originally estimated number of properties. The enquiry work is in progress, and maintenance will soon be commenced. The next work in importance is the revision city survey of Bijapur, where the survey work could not be completed on account of high winds prevailing and the difficulty of working in the open parts of the town. Up to now 248 T. Stones have been plotted and 6,722 properties have been measured. The work will be completed in February next. Enquiry work is in progress. The city survey and enquiry work in Athni has been completed. Government have approved administratively the arrangements for maintenance of this city survey and funds for it have been provided in the budget of 1922-23. So maintenance will commence from March next.

58. Maintenance work was carried out during the year as shown below. The amount done was satisfactory except in Gadag, where it was hindered by the non-receipt of printed maps. In Navalgund and Guledgud maintenance was in progress during only a portion of the year :—

Cities.	Properties.		No. of stones.		Remarks.
	Total.	Reviewed.	Total.	Inspected.	
Belgaum	7,051	2,585	913	470	
Dharwar	9,832	2,334	374	27	
Gadag	9,675	473	1,243	371	
Ranebennur	4,386	1,141	785	164	
Byadgi	1,828	669	69	12	
Navalgund	2,796	112	70	10	
Bagalkot	4,908	1,960	1,254	412	
Guledgud	3,869	784	87	19	

59. In Belgaum, Ranebennur, Byadgi, Bagalkot and Guledgud, sanads are being issued; in Dharwar sanad-writing work is nearing completion. In Gadag all recoveries have been made and the re-writing of the property register has commenced.

The enquiry work of Navalgund and Guledgud under Rao Saheb Kalkot and of Dharwar under Mr. Sashital has been completed.

The progress made in city surveys throughout the year may be gauged from the fact that in the preceding year 24 city surveys were under maintenance while during the year under report the number was 34; and one—Pandharpur—is ready for maintenance, awaiting Government orders regarding establishment, etc.

Village Site Survey.

60. The survey of six village sites remaining to be done last year was completed and nine village sites more of the Ahmedabad Suburban villages were surveyed during the year (containing 2,276 properties), and a special Awal Karkun was engaged to decide disputes and to prepare Record of Rights. Occupants' sketches for undisputed properties have been issued and cost recovered. The cost per property is Re. 0-10-3. The village site survey of 5 Andheri village in South Salsette taluka was taken up during the year and the survey of the four village-sites of Andheri, Ambivli, Gundavli, and Ville Parle has been completed. Properties measured are 1,052 and compilation of Record of Rights is in progress. The maintenance work of 15 village sites in Gujarat is properly attended to. Nandurbahula (Taluka Nasik) has now been completed.

Photozinco Press.

61. The work turned out by the Press during the financial year was:—

Machine pulls	4,519·92,	cost Rs. 13,049-7-8
Hand pulls	308·39,	cost Rs. 6,951-5-5

The Press continued to maintain a high professional standard. It is found that, inspite of the much higher pay, the cost of 9 items out of a total of 13 worked out in the "costing" system has gone down, as compared with three years ago. The reason is the increased output. A very important work it turned out, though "not in our line", was in connection with the Election and Census. The new process of photographing registered documents has now added to the number of varieties of work it every year turns out. The need of another Assistant Manager is being very keenly felt, with the increase in variety and volume of work, and proposals in this connection have been made to Government.

CHAPTER V.

Record of Rights.

62. The re-writing of Record of Rights was postponed in the following talukas:—

District.	Taluka.	Villages.	Reasons for postponing.
Ahmedabad	All	All	Revision settlements of all the talukas are duly postponed under Commissioner, N. D.'s orders.
Panch Mahals	Zalod and Dohad ..	All	Pôt hissa work was in progress during the year.
Sholapur	Karmala and Pandharpur.	All	Postponed owing to bad season.
Ahmednagar	All except Akola ..	All	Do.
Poona	Junnar, Khed and Ambegaon and Dhond petas.	All	Pôt hissa work is yet to be completed.
West Khandesh	Sakri	All	Postponed owing to bad season.

District.	Taluka.	Villages.	Reasons for postponing.
Belgaum	Chikodi ..	Inam ..	Government and Inam villages are to be taken together.
Kolaba	Mahad ..	Khoti villages.	Government and inam villages are to be taken together and awaiting completion of hissa survey.
Bijapur	Bijapur, Indi, Bagewadi, and Hungund.	All	The necessary establishment was required for famine work.
	Badami ..	All	The necessary extra assistance was not available.

63. Re-writing was done in the following talukas:—

District.	Taluka.	Villages.	Remarks.
Ahmedabad	Sanand Mahal ..	Inam village of Vasodra.	Newly introduced.
Kaira	Matar and Mehmedabad	All	In progress.
	Anand	Narvadari villages ..	Do.
	Nadiad	Two villages ..	Do.
Panch Mahals ..	Godhra, Kalol and Halol.	All	Completed.
Broach	All except Vaghra ..	All	In progress.
Thana	Dahanu ..	1 circle ..	Completed.
	Bhiwandi ..	88	
	Wada	93	
East Khandesh	Raver ..	125	35 villages are completed. The rest in progress.
Ahmednagar	Akola	72	Completed.
Satara	Karad and Wai ..	87 and 84	Almost completed.
Nasik	Chandor ..	109	Completed.
	Malegaon ..	153	
West Khandesh	Shirpur ..	119	Completed.
	Shahada ..	166	
	Taloda	124	
Belgaum	Hukeri ..	All	Completed.
	Belgaum Khanapur ..	All	In progress.
	Parasgad ..	The lapsed inam village of Yedihalli.	First promulgated.
Kanara	Siddapur ..	All	In progress.
	Sirsi		
	Yellapur ..		
	Supa and Mundgod..		
Ratnagiri	Chiplun ..	All	Completed.
	Guhagar ..	All	Do.
	Deogad ..	31	16 are completed: the rest in progress.
	Khed	44	32 are completed: the rest in progress.

The final report on the Maxwell Inversion System of Record of Rights has been submitted to Government, whose sanction is awaited.

General Remarks.

64. The revision of pay of the subordinate establishment, which was introduced with effect from 1st March 1920, afforded much needed relief, and very generally gave satisfaction. The only matter about which the men have seriously complained is the grade of Rs. 35—5/2—70 in the District Survey Offices, which they compare unfavourably with the grade of Rs. 30—5/2—80 in the Revenue Department. There is superficially some substance in this complaint on the part of men already in service, since they will find themselves held up at the maximum of Rs. 70, while men in the Revenue Department go on to Rs. 80. But if the clerks in the District Survey Offices are unfit for higher work than is required in the posts comprised in the grade in question, then the maximum of Rs. 70 is quite sufficient remuneration for them.

65. Purely vernacular-knowing men who join a district survey office after the date on which the revision took effect will, if efficient, be at least as well off as men with corresponding qualifications in the Revenue Department. During the first 16 years of their service they will draw Rs. 5 per month more than their colleagues in that Department, for the next two years they will draw the same, and only from the 19th year onwards will the pay in the Revenue Department be higher. Consequently if such a man in this Department can secure promotion to a higher grade at the end of 20 to 25 years,—as I calculate he will, if efficient,—he will be better off than his colleagues in the Revenue Department, who will in ordinary course take at least 20 years to work through the grade of Rs. 30—5/2—80. In these circumstances I do not anticipate any lack of competent vernacular-knowing recruits in future, except for one thing, and that is that in the Southern Division the lowest grade in the District Survey Offices is not 35—5/2—70, but one post in each on Rs. 30—½—40. The pay of this last post will, I anticipate, have to be raised so as to make the immediate prospects of a man joining the district survey office equal to those of a recruit to the Revenue Department.

66. Now that the Department is expected to produce a sufficiency of men from its own ranks to fill the posts of District Inspector, I am of course greatly concerned with the prospects of competent English-knowing recruits being attracted by the revised pay and prospects. I have every hope that they will be. A limited number of graduates could do very well for themselves by joining this department.

67. Orders have been received for the separation of the cadre of District Inspectors from that of Mamlatdars. The proposal to introduce a special qualifying examination for the posts of District Inspectors open to men of the Land Records Department has also been approved by Government. Effect has still to be given to these orders. The District Inspectors are not quite satisfied with their revised grades of pay and I think they might fairly have been a little more liberal. Three appointments of clerks of the Land Records Department as District Inspectors were made during the year, and have so far been signally successful. At the present time two more men of the Land Records Department are showing what they can do as District Inspectors in acting vacancies.

68. Those of the present District Inspectors who joined from the Revenue Department are anxious to know whether, if they elect to remain in this Department they will have as good chances as before of appointments as Deputy Collector. I hardly think that under the new arrangement it can be intended that the cadre of District Inspectors should form a regular recruiting ground equally with the cadre of Mamlatdars for the posts of Deputy Collectors, but it seems desirable that there should be a definite pronouncement of Government on the subject.

69. In the working of the Department throughout the year I myself have had no part. The choice of Mr. Gawan Taylor as Superintendent of Land Records, Southern Division, is proving highly successful. Regarding Mr. Mardhekar in the Central Division and Mr. Kavi in Northern Division the appreciative remarks made by Mr. Anderson and myself in the last two annual reports are as fully deserved again this year.

70. As regards Survey Mamlatdars and Head Surveyors last year's recommendations of Messrs. Bhagwat, Sane, Parchure, Bhailal Hargovan, and Maneklal are repeated. To this list must be added this year the name of Mr. Moghe who has

worked very successfully in the difficult field of Thana, where an effective man was very badly needed. The Office Superintendent, Mr. Antia, has continued to work excellently. My predecessor was thoroughly satisfied with the work of the rest of the office staff, and I have no reason for taking a different view.

71. I regret that this report is late. Excess of work has been the cause, and my two chief clerks have had much trouble during November and December with the preparation of Imperial Fiscal Form VI.

I have the honour to be,

Sir,

Your most obedient servant,

A. MACKIE,

Acting Settlement Commissioner and
Director of Land Records.

STATEMENT I.

Statement I showing Crop, Waste, Boundary Marks and other Inspection carried out by Circle Inspectors in the Districts during the Year 1920-21.

Name of District.	Number of Circle Inspectors in the District.	Number of villages in each District.		Number of days actually devoted to inspection work.	Crop and Tenancy Inspection.		Waste Inspection.		Repair of boundary marks.						Average number of days spent by Circle Inspectors of the District on inspection and repairs.	Inspection of Tagai Work.		Number of entries checked in the Birth and Death Register.	Number of entries checked in Village Forms VI and VII.	Remarks.
									Number of villages due for repairs.		Number of villages completely inspected and repaired.		Balance of villages outstanding at close of season.							
		Total.	Number inspected.		Total Number of occupied Survey Numbers.	Number of Survey Numbers and Sub-divisions.	Number of waste Numbers other than forest.	Number inspected.	Arrears of past year.	Current year's programme.	Arrears of past year.	Current year's programme.	Arrears of past year.	Current year's programme.		Number of Tagai Works examined.	Number in which Work was finished.			
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Northern Division.				Average.																
Ahmedabad	18	455	455	176	182,034	28,122	31,202	4,534	7	*..	..	..	7	..	..	46	45	8,346	9,142	There are 391 Talukdari villages. In 76 villages 27,971 entries in Settlement Registers were checked by the revenue staff.
Kaira	21	588	588	250	319,475	33,869	17,149	1,585		*..	..	..	..	..	..	220	173	15,395	26,907	
Panch Mahals	14	430	414	229	82,945	16,081	12,633	3,703	7	*48	..	..	7	48	..	67	62	6,460	98,443	
Broach	14	415	407	190	133,480	17,564	10,226	1,698	..	29	..	29	..	..	33	18	16	9,281	13,633	
						H32,497														
Surat	23	821	793	95	245,234	27,203	11,668	1,808	1	121	1	121	..	..	61	5	5	11,500	72,496	
						H51,813														
Thana	35	1,546	1,457	155	194,862	14,349	26,972	1,832	14½	*124½	11	..	3½	124½	36	7	5	13,135	102,252	
Bombay Suburban Division ..	3	76	43	100	5,710	312	405	106	3	8	2	8	1	..	48	..	..	376	11,901	
						H2,464														
Central Division.																				
East Khandesh	43	1,802½	1,802½	151	207,300	23,135	7,879	2,411	1	353	1	347	..	6	57	333	222	25,579	24,968	
						H11,075														
West Khandesh	31	†1,219	1,219	78	146,173	17,942	13,472	1,018	16	*..	..	..	16	..	..	182	177	15,445	91,220	
Nasik	38	1,694	1,682	250	251,463	25,837	10,843	1,635	9	48	4	42½	5	5½	68½	1,914	1,689	19,853	27,200	
						H14,795														
Ahmednagar	47	1,375	1,374	65	239,580	22,373	4,577	1,034	65	*..	2	..	63	..	30	1,947	1,501	25,151	149,731	
Poona	20	1,176	1,176	227	222,593	18,145	2,633	776	26	*97	15	..	11	97	66	298	230	11,730	31,276	
						H12,638														

Sholapur	18	702	702	236	113,320	14,964	2,601	659	..	..	..	..	..	..	..	..	330	265	10,810	43,687	
Satara	35	1,358‡	1,347	217	279,406	30,604	2,055	750	4	68	4	67	..	1	65		633	519	16,373	270,324	
						H106,062															
Southern Division.																					
Belgaum ..	30	1,084	1,030	191	177,493	23,508	8,423	1,104	7	68	7	61	..	7	56		959	712	20,441	107,111	
						H20,790															
Bijapur	32	1,168	1,072	232	157,988	25,082	3,383	1,120	1	99	..	..	1	99	..		2,192	1,086	24,964	74,488	
						H3,884															
Dharwar	41	1,289	1,270	259	186,922	42,938	9,990	2,832	58½	187	58½	187	..	..	107		18	12	21,345	85,737	
						H10,537															
Kolaba	30	1,633	1,527	129	155,197	8,957	6,609	1,202	36½	164½	17	42½	19⅝	121½	52		12	10	9,967	32,893	C. I. checked 8,027 entries in Village forms VI and VII in 236 Khoti Villages.
Ratnagiri	17	1,337	906	121	188,156	2,141	4,893	966	..	..	..	..	..	..	..		4	6	6,150	16,212	
						H8,573															
Kanara	32	1,419	1,340	156	138,069	30,390	10,283	3,892	18	22	16	18	2	4	67		10	6	11,374	106,928	
						H24,841															

H = Hissas.

* The boundary mark work was suspended owing to unfavourable season.

† One village Bhudki included in forest.

‡ These new villages formed out of lands in fort villages.

A. MACKIE,

Acting Settlement Commissioner and
Director of Land Records.

STATEMENT II.

Statement II showing the measurement and classification work performed by Circle Inspectors and other establishments deputed on routine measurement work during the year 1920-21.

Name of District.	Arrears at the beginning of the year.		Received during the year.		Disposed of during the year.		Balance at the close of the year.		Remarks.
	Measurement.	Classification.	Measurement.	Classification.	Measurement.	Classification.	Measurement.	Classification.	
	Survey Nos.	Survey Nos.	Survey Nos.	Survey Nos.	Survey Nos.	Survey Nos.	Survey Nos.	Survey Nos.	
Northern Division.									
Ahmedabad ..	31	....	546	14	544	14	33	....	
Kaira ..	208	....	1157	98	1143	89	222	9	
Panch Mahals ..	91	2	749	10	736	12	104	....	
Broach ..	51	1	781	54	741	53	91	2	
Surat ..	89	3	691	2	718	3	62	2	
Thana ..	939	94	1043	62	1166	62	816	94	
Total ..	1409	100	4967	240	5048	233	1328	107	
Bombay Suburban Division.	89	7	197	11	217	17	69	1	
Central Division.									
East Khandesh ..	104	....	1249	39	1261	39	92	....	
West Khandesh ..	59	10	311	81	337	83	33	8	
Nasik ..	25	....	3090	13	3041	12	74	1	
Ahmednagar	82	2	274	11	179	12	177	1	
Poona ..	325	1	2440	59	2162	29	603	31	
Sholapur ..	305	5	1073	6	1119	8	259	3	
Satara ..	239	....	2507	44	2127	23	619	21	
Total ..	1139	18	10944	253	10226	206	1857	65	
Southern Division.									
Belgaum ..	*278	1	1307	5	1186	5	399	1	*Last year's figures were not correctly reported.
Bijapur ..	231	....	1032	9	1198	9	95	....	
Dharwar ..	150	164	1766	138	1588	302	328	....	
Kolaba ..	87	11	647	110	724	117	10	4	
Ratnagiri ..	257	9	673	17	687	20	243	6	
Kanara ..	159	5	1135	69	1101	64	193	10	
Total ..	1192	190	6560	348	6484	517	1268	21	
Grand Total ..	3829	315	22668	852	21975	973	4522	194	

A. MACKIE,

Acting Settlement Commissioner and
Director of Land Records.

STATEMENT III.

Statement No. III showing the test of Village Officers' and Circle Inspectors' work by Sub-Divisional Officers and Mamlatdars in the Districts during the year 1920-21.

Name of District.		Number of villages.		Number of boundary marks inspected.	Number of Survey Numbers in which Crop and Tenancy Record was inspected.		Number of villages in which Birth and Death Registers were checked.	Number of entries checked in Village Forms Nos. VI and VII.	Remarks.
		Total in District.	Number inspected.		Village Officers' work.	Circle Inspectors' work.			
1		2	3	4	5	6	7	8	9
Ahmedabad	S. D. O.	3	455	254	447	458	261	1,384	
	Mr.	9		443	4,623	1,766	440	5,188	
					H 1,446	H 991			
Kaira	S. D. O.	3	588	282	1,750	..	210	1,725	
	Mr.	7		501	4,770	1,638	494	8,226	
Panch Mahals	S. D. O.	2	430	268	1,311	513	238	3,277	
	Mr.	5		394	3,748	967	398	6,996	
Broach	S. D. O.	2	415	368	770	77	308	1,590	
	Mr.	6		410	3,607	763	357	6,631	
					H 4,054	H 232			
Surat	S. D. O.	2	821	417	1,202	3,114	533	402	4,578
	Mr.	9		767	10,231	10,539	3,414	655	27,430
Thana	S. D. O.	5	1,546	536	1,825	2,373	1,300	524	12,208
						H 2,821	H 15		
	Mr.	11		856	6,305	2,665	821	782	28,370
						H 4,752	H 1,501		
Bombay Suburban Division.	S. D. O.	1	76	43	..	60	..	6	114
						H 50			
	Mr.	1		43	744	220	..	36	3,180
						H 1,657			
East Khandesh	S. D. O.	3	1,802½	513	674	840	772	247	5,616
	Mr.	11		1,389	6,084	7,136	1,469	1,013	13,663
West Khandesh	S. D. O.	3	*1,219	505	..	1,782	213	316	4,638
	Mr.	8		1,153	487	6,092	695	1,038	8,700
Nasik	S. D. O.	3	1,694	687	51	720	177	415	1,319
						H 396	H 145		
	Mr.	12		1,406	481	4,841	1,968	1,382	9,167
						H 1,149	H 239		
Ahmednagar	S. D. O.	4	1,375	857	† ..	1,149	574	609	4,591
	Mr.	12		1,288	† ..	4,838	3,373	1,211	114,026
Poona	S. D. O.	3	1,176	325	353	772	111	211	6,410
						H 2,568	H 358		
	Mr.	12		979	..	4,784	2,122	779	17,311
						H 12,319	H 5,885		
Sholapur	S. D. O.	2	702	298	69	1,069	385	241	2,007
	Mr.	7		702	..	2,890	1,790	701	6,586
Satara	S. D. O.	4	‡1,358	619	811	2,002	65	618	7,366
						H 1,559	H 74		
	Mr.	14		1,347	4,464	9,476	3,879	1,346	73,633
						H 27,303	H 10,884		
Belgaum	S. D. O.	4	1,084	427	1,321	2,142	336	412	2,392
						H 1,536	H 525		
	Mr.	12		902	2,825	8,232	999	836	9,060
						H 4,641	H 743		
Bijapur	S. D. O.	2	1,168	426	192	2,348	1,887	330	4,465
	Mr.	9		1,027	287	4,210	959	977	29,521

* One village Bhudki included in forest.
‡ Three new villages formed out of lands in fort villages.

STATEMENT III—*continued*.

Name of District.			Number of villages.		Number of boundary marks inspected.	Number of Survey Numbers in which Crop and Tenancy Record was inspected.		Number of villages in which Birth and Death Registers were checked.	Number of entries checked in Village Forms Nos. VI and VII.	Remarks.
			Total in District.	Number inspected.		Village Officers' work.	Circle-Inspectors' work.			
1			2	3	4	5	6	7	8	9
Dharwar ..	S. D. O. ..	3	1,289	400	1,639	3,245	2,169	299	4,003	
	Mr. ..	11		1,127	4,588	7,884	2,127	1,014	12,276	
Kolaba ..	S. D. O. ..	2	1,633	397	911	1,688	627	379	2,941	
						H 5,610	H 1,759			
	Mr. ..	10		1,473	3,697	2,278	419	1,310	15,960	
Ratnagiri ..	S. D. O. ..	2	1,337	690	1,237	247	116	519	5,699	
	Mr. ..	11		1,263	..	734	407	1,257	17,761	
Kanara ..	S. D. O. ..	4	1,419	386	945	1,978	808	272	2,656	
	Mr. ..	13		1,248	4,024	7,803	2,088	1,075	24,085	
						H 1,837	H 467			

S. D. O.=Sub-Divisional Officer.
Mr.=Mamlatdars or Mahalkari.
H.=Hissas.

A. MACKIE,
Acting Settlement Commissioner and
Director of Land Records.

STATEMENT IV.

Statement IV showing the details of work done by the District Inspector of Land Records during the year 1920-21.

Name of District.	Number of villages in the District.		Number of days devoted to all kinds of inspection.	Number of Circle Inspectors.	Number of Circles.	Crop and Waste Inspection Numbers Tested.						Number of Boundary Marks Examined.	Entries in the Return of Population and Agricultural Stock Tested.	Entries in the Birth and Death Regist Tested.	Numbers of Survey Numbers Tested.				Number of entries in Village Forms VI and VII Tested.	Number of Village Accountants Examined in Measurement Work.	Taluka Forms XX to XXIII Tested.	Number of Tagai Works Examined.	Number of entries in V.F. XVI Inspected.	Remarks.
						Early.		Late.		Waste.					Measured by the Circle Inspectors.	Classed by the Circle Inspector.	Measured by the General Duty Inspector.	Classed by the General Duty Inspector.					
	Total.	Inspected.				Circle Inspectors Work.	Village Accountants' Work.	Circle Inspectors' Work.	Village Accountants' Work.	Circle Inspectors' Work.	Village Accountants' Work.												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Northern Division.																								
Ahmedabad ..	455	155	172	18	18	1,665	2,875	253	740	4	162	..	..	1,593	65	116	12	..	5,040	..	Nos. XX to XXI in all Talukas.	..	234	
Kaira ..	588	117	104	21	21	128	1,437	58	188	..	25	..	..	322	20	4	81	7	2,400	..	..	..	54	
															H 146									
Panch Mahals ..	430	162	263	14	14	764	169	686	319	291	406	5,613	..	107	27	2	34	1	3,208	..	..	..	76	
															H 57									
Broach ..	415	167	151	14	14	477	570	377	469	136	207	786	..	1,542	56	..	10	18	2,441	..	..	1	1,217	
Surat ..	824	223	153	24	23	1,299	2,214	1,017	1,680	742	266	7,097	..	1,806	54	..	8	..	8,118	..	..	..	..	
															H 125		H 11							
Thana ..	1,546	138	87	35	35	..	..	..	..	3,388	12	924	41	1,225	94	31	..	1	6,262	2	..	..	345	
Bombay Suburban Division ..	76	44	95	4	4	..	28	..	..	..	..	440	..	129	51	6	2	1	416	..	..	..	..	
							H 235																	
Central Division.																								
East Khandesh ..	1,802½	156	146	43	41	305	805	12	30	35	51	1,945	..	1,131	46	..	23	25	5,180	..	..	8	353	
															H 21		H 35							
West Khandesh ..	1,219*	231	168	31	31	1,158	..	853	..	209	..	..	..	921	86	..	12	..	2,487	..	..	16	..	
Nasik ..	1,694	197	215	38	38	315	917	200	454	17	45	621	41	718	456	..	5	2	3,416	..	XX in all Talukas.	35	27	
Ahmednagar ..	1,375	143	107	47	47	265	201	165	195	..	..	..	..	622	27	4	..	..	3,287	..	XX in 9 Talukas.	21	185	

*One village Bhudki included in forest.

Statement IV showing the details of work done by the District Inspector of Land Records during the year 1920-21.

Name of District.	Number of villages in the District.		Number of days devoted to all kinds of inspection.	Number of Circle Inspectors.	Number of Circles.	Crop and Waste Inspection Numbers Tested.						Number of Boundary Marks Examined.	Entries in the Return of Population and Agricultural Stock Tested.	Entries in the Birth and Death Register Tested.	Numbers of Survey Numbers tested.				Number of entries in Village Forms VI and VII Tested.	Number of Village Accountants' Examined in Measurement Work.	Taluka Forms XX to XXIII Tested.	Number of Tagai Works Examined.	Number of entries in V. F. XVI Inspected.	Remarks.
						Early.		Late.		Waste.					Measured by the Circle Inspectors.	Classed by the Circle Inspectors.	Measured by the General Duty Inspectors.	Classed by the General Duty Inspectors.						
	Total.	Inspected.				Circle Inspectors' Work.	Village Accountants' Work.	Circle Inspectors' Work.	Village Accountants' Work.	Circle Inspectors' Work.	Village Accountants' Work.													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Central Division.—continued.																								
Poona ..	1,176	195	152	30	30	127	277	186	441	79	211	1,281	..	1,377	321	..	42	16	6,239	..	5 Talukas.	37	573	
Sholapur ..	702	84	125	18	18	..	..	..	228	..	..	687	..	52	90	..	..	..	2 085	..	..	..	..	
Satara ..	1,358†	123	114	35	35	4	785	..	..	..	..	1,455	..	411	48	..	2	..	2,778	..	..	..	185	
							H 2,575																	
Southern Division.																								
Belgaum ..	1,084	184	138	30	30	..	22	58	171	..	8	1,235	..	1,158	76	..	..	5	,836	..	4 Talukas.	..	14	
							H 41	H 103	H 189															
Bijapur ..	1,168	102	149	32	32	31	72	441	1,094	2	2	..	14	467	23	..	7	8	1,978	..	All Talukas	80	411	
															H 86									
Dharwar ..	1,289	234	157	41	41	24	242	169	139	..	..	1,117	..	2,146	7	13	1	8	3,500	..		122	26	
Kolaba ..	1,633	202	123	30	30	..	..	204	1,953	64	..	3,832	..	953	29	..	5	4	4,697	..	No. XX in 3 Talukas.	..	..	
Ratnagiri ..	319	102	129	17	17	80	80	18	18	..	..	..	..	..	40	..	4	2	1,730	..	..	..	..	
Kanara ..	1,419	210	139	32	32	326	655	4	6	100	114	48	15	426	65	..	3	6	4,716	..	7 Talukas.	..	..	

† Three new villages formed out of lands in Fort villages.

H = Hissas.

A. MACKIE,

Acting Settlement Commissioner and
Director, Land Records.

Part III of the Land Revenue Administration Report of the Province of Sind for the year 1920-21.

No. Rev.-3153 of 1921.

REVENUE DEPARTMENT.

Office of the Commissioner in Sind,

Government House, Karachi, 24th October 1921.

Revised irrigational settlements were introduced in the following talukas during the year :—

(1) Sakrand taluka of the Nawabshah district.

(2) Khipro, Sawaro and Sanghar talukas of the Thar Parkar district.

(3) Kotri taluka and Manjhand mahal of the Karachi district.

(4) Jacobabad taluka of the Upper Sind Frontier district.

Appendix A shows the estimated financial results of the new rates sanctioned.

The Commissioner's proposals for the conduct of revision operations in Warah, Badin, Tando Bago, Guni and Sinjhoro (non-Jamrao) talukas during the current cold weather have been submitted to Government for sanction. Orders thereon are still awaited.

2. The work done during the year at the Head Record Office is detailed in appendices B and C. The figures in columns 3 to 5 of appendix B show a falling off from those of the previous year. This is due to the fact that the latter were abnormally large in consequence of the measurement of lands on the Choi canal in the Shikarpur taluka and owing to the construction of water-courses. There were no arrears at the end of the year. All the correction cases, numbering 4,427 (appendix B), were disposed of. Entries relating to 1,311 survey numbers were examined in the office of the Superintendent of Land Records.

In all, 274 land registers were prepared during the year as against 126 in the previous year. Out of these, 34 were prepared to replace worn-out registers, and two on account of territorial changes. In the resettled talukas of Umarkot, Shikarpur and Digri and the two dehs of Sanghar taluka the re-writing of land registers has been finished, and in the remaining resettled talukas of Mirpurkhas, Jamesabad and Sinjhoro it is being attended to.

The number of maps prepared and supplied to Government officers and to private individuals was 6,497 as against 6,843 in the previous year, the decrease occurring in the number of requisitions from the village establishments. Besides the above, 589 maps were corrected and kept in the Record Office for use as office copies or for future reproduction. The total number of maps thus dealt with amounts to 7,086 as compared with 7,152 in the previous year. The number of maps sent to the Photozinco Office, Poona, for reproduction was 137 as against 155 in the previous year.

Appendix C relates to the work done in the Record Office in consequence of the measurements carried out by the village establishments. The number of measurement papers relating to survey numbers received for examination and entry in the Record of Rights, as compared with that of the previous year, was less by 4,739. The decrease is due to the fact that, unlike last year, no new dehs were formed during the year under report. All the papers received in the Record Office were disposed of, leaving no arrears at the end of the year. Out of 12,033 survey numbers for which measurement papers were disposed of during the year, the papers relating to 6,054 survey numbers were returned unentered, their amendment being necessary. This figure shows an excess over last year's figures and is due to the carelessness of the Tapadars

in preparing survey papers and of the Supervising Tapadars in testing them. Cases of gross remissness in this respect were brought to the notice of the District Officers for action but no appreciable improvement has taken place.

3. The working of sorting and destroying records is reported to be up to date.

4. The Record Office came under the annual inspection of the Superintendent, Land Records, in May and June last, and the result was satisfactory.

The Head Record Office was overhauled, at the instance of the Superintendent, Land Records, during the year under report, with the result that seven posts which were nominally temporary, although they had long been maintained, were abolished. Another reform was that special forms of registers for measurement cases and supply of copies of field books and other papers were introduced, which have furnished a ready means of checking delays in the disposal of papers. The Superintendent, Land Records, reports that at the time of the last inspection of this office he was favourably impressed with the expeditious manner in which papers were disposed of.

5. No field survey parties were organized during the year owing to want of funds.

The work of sanad writing and map preparation, etc., in connection with the survey of the town of Garhi Yasin was completed during the year, and the records were handed over to the Mukhtiarkar, who was appointed *ex-officio* City Survey Officer under Government Order, Revenue Department, No. 2630 dated the 13th September 1920. A Surveyor of the Shikarpur City Survey staff is doing the maintenance work of this town survey in addition to his other duties. Six hundred properties and 40 theodolite stations were inspected by the Superintendent, Land Records. The total cost of this survey came to Rs. 4,489, of which Rs. 1,518 have been recovered in the shape of sanad fees and other miscellaneous items, Rs. 109 have been written off and the balance still remains to be recovered.

The survey operations in connection with the City of Sukkur, which commenced last year, were continued during the year, and the number of properties measured amounted to 7,490 and the number of theodolite stations to 438. The work of map tracing and the writing up of property registers and sanads is in progress. The Enquiry Officer, Rohri, is attending to the settlement of private disputes in connection with this work in addition to his other duties. The Superintendent, Land Records, inspected from time to time this survey and enquiry work at Sukkur and reports that though the number of properties actually measured has much exceeded the estimated number of 6,000, yet the work has been done with so much economy that the total expenditure incurred on the survey will not exceed the sanctioned allotment of Rs. 20,000.

The traverse survey at Rohri was commenced on the 2nd March 1921. By the end of the year 3,004 properties had been measured and 318 theodolite stations demarcated.

The survey of Malir and its surroundings with a view to the making of a town plan was undertaken during the year at the request of the Settlement Commissioner and Director of Land Records. At first it was proposed to survey only the tract north of the railway station within a radius of one mile, and an estimate was accordingly prepared for Rs. 711; but the Consulting Surveyor to Government asked that the area to the south of the railway line within a radius of one mile from the station should also be surveyed. This meant doubling the amount of work originally proposed. The work was, however, done under the direct supervision of the Superintendent, Land Records, within the sanctioned allotment, and the Settlement Commissioner and Director of Land Records has pronounced it to be "excellent." The survey of the Malir tract disclosed many unauthorized encroachments by land-holders on Government lands, bunds and roads. The boundaries of all the survey numbers were therefore verified and refixed in

accordance with the original survey records maintained at the Head Record Office. Action is now being taken to remove the encroachments.

The resurvey of Karachi is progressing satisfactorily.

The survey of the Ganja Takar was undertaken during the year under Government Order No. 2808 dated the 13th March 1921. The area surveyed was 1,077 acres and 24 gunthas, and in all 60 theodolite stations were fixed in the tract. The expenditure incurred on the work amounted to Rs. 360-5-7 only and was paid out of the Collector's grant of Rs. 2,000 sanctioned for the purpose.

The survey of Prattabad, a suburb of Hyderabad, was also carried out according to city survey methods during the year. The area measured was 71 acres and 11 gunthas, in which 14 theodolite stations were demarcated, 220 properties measured and 195 plots newly laid out, besides roads and streets. The cost of this survey which is to be borne by the Hyderabad Municipality amounted to Rs. 122-13-8.

The maintenance work of the Shikarpur City Survey, which commenced last year, is still in progress and will have been completed during the current year. The total cost of the Shikarpur City Survey amounts to Rs. 59,943-2-1. Out of this amount Rs. 55,142-1-6 have been recovered, and the balance remains to be recovered.

6. The Superintendent during his tour tested 175 survey numbers measured by the village establishment and discovered mistakes in 21 cases. He also discovered several cases of delay in measurement and in the despatch of the measurement papers to the Record Office. These he brought to the notice of the District Officers concerned.

As the survey work is not being satisfactorily done by the village staff, proposals for the appointment of a separate staff for measurement work are under consideration.

7. The four weeks' survey class was as usual held in August. It was attended by six Mukhtiarkars and one Assistant Collector, all of whom were granted certificates of proficiency. In addition, five Head Munshis and graduates and one clerk from the Superintendent's office passed the test after the usual three months' training.

8. The total cost of the Land Records Department for the year amounted to Rs. 80,169-4-5, of which Rs. 21,754 were spent on city surveys.

9. During the year, the Record of Rights was neither introduced nor promulgated in any taluka in Sind.

The Record was due for re-writing in the Mirpurkhas, Jamesabad, Digri, Umarkot, Khipro and Sanghar talukas of the Thar Parkar district, in the Sukkur and Shikarpur talukas and deh Kartar in the Rohri taluka of the Sukkur district, in the Sakrand, Nausharo, Moro, Nawabshah and Kandiaro talukas of the Nawabshah district, and in the Tando Bago taluka of the Hyderabad district. The work was not carried out in any of these talukas. It was postponed in the Mirpurkhas, Jamesabad, Digri and Umarkot talukas of the Thar Parkar district and the Tando Bago taluka of the Hyderabad district owing to the village establishment being busy with the census work, in Khipro, Sanghar and Sakrand talukas owing to the fact that proposals for the revision of the settlements were under investigation, and in deh Kartar of the Rohri taluka owing to the land being under water. In the Kandiaro taluka of the Nawabshah district the work will be undertaken this year, and in Sukkur, Shikarpur, Nausharo, Moro and Nawabshah talukas it has already begun. The re-writing of the Record in the Guni, Badin and Dero Mohabat talukas of the Hyderabad district referred to in the previous year's report was completed during the year under report.

The work of measuring fresh sub-divisions was, except in the Sukkur district, up to date, being carried out by the village establishment as a part of their ordinary duties.

The total number of cases in which the acquisition of rights was not reported during the year was 1,677, the fines imposed for such omission amounting to roughly Rs. 3,000.

Except in the areas specially exempted from the operation of the Act, the revenue accounts were throughout the province based on the entries in the Record of Rights.

The maintenance of the Record was on the whole satisfactory. It is generally reported that land-holders are attaching much more importance to it than formerly.

J. L. RIEU,

Commissioner in Sind.

To

THE SECRETARY TO GOVERNMENT,

REVENUE DEPARTMENT, BOMBAY.

APPENDIX A.

(Paragraph 1.)

District and its area.	Taluka and area for settlement during the year.	Area settled during the year.	Old assessment.	Revised assessment.	Percentage increase.	Percentage decrease.	Remarks.
	Acres.	Acres.	Acres.	Rs.	Rs.			
Nawabshah ...	2,495,164 Sakrand	3,33,556	3,33,556	1,43,753	1,70,772	18·79	...	
Thar Parkar ...	89,27,664 Khipro	14,40,839	14,40,839	1,57,192	2,47,882	32·42	...	
Karachi ...	7,532,213 Samaro	3,09,468	3,09,468	1,53,555	1,99,454	29·89	...	
	Sanghar	5,16,510	5,16,510	1,26,047	1,64,051	30·15	...	
	Kotri	6,38,261	6,38,261	55,413	70,614	27·43	...	
	Manjhand	3,74,348	3,74,348	46,225	50,167	8·52	...	
Upper Sind Frontier.	1,722,979 Jacobabad	2,96,384	2,96,384	3,44,657	4,30,408	24·88	...	

APPENDIX B.

Showing the work done in the Head Record Office in connection with sketches, etc.

Year.	Number of cases (including arrears) necessitating corrections in the Survey Records.				Number of cases returned duly corrected.				Number of cases remaining for correction at the end of the year.				Number of extracts from Survey Registers supplied.	Number of Survey Registers prepared and supplied to		
	Survey Registers.	Maps. English.	Maps. Sindhi.	Lists of Karia rebates.	Survey Registers.	Maps. English.	Maps. Sindhi.	Lists of Karia rebates.	Survey Registers.	Maps. English.	Maps. Sindhi.	Register of Karia rebates.		Village Establishments.	District Officers.	Petitioners.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1920-21 ...	2,453	126	1,815	33	2,453	126	1,815	33	...	...	...	...	626	2	...	...
1919-20 ...	2,394	134	2,384	48	2,343	134	2,333	48	51	...	51	...	628	11	12	...

Year.	Number of copies of Field Books supplied.	Land Registers prepared for the Head Record Office.	Number of Maps supplied								Maps prepared for printing.		Maps prepared to replace torn office copies in the Head Record Office.	Remarks.
			Free of cost to Village Establishments.	On payment to Village Establishment.	To District Officers. English.	To District Officers. Sindhi.	To petitioners on payment. English.	To petitioners on payment. Sindhi.	To Public Works Department. English.	To Public Works Department. Sindhi.	English.	Sindhi.		
1	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1920-21 ...	2,816 (11,469 Nos.)	274	3,370	153	87 (*Vide* cols. 26 and 27)	1	12	840	35	1,999	14	123	198	
1919-20 ...	2,468 (10,302 Nos.)	126	3,834	140	151	1,915	4	799	Included in cols. 22 and 23 for District Officers.		10	145	154	

D. MACLACHLAN,
for Commissioner in Sind.

APPENDIX C.

Showing the work done in the Head Record Office in connection with new measurements done by Village Establishment.

District.	Number of talukas in which survey work was done.	Number of survey numbers received for examination and entry in the Survey records.	Number of survey numbers returned after making entries in the Survey records, maps and registers.	Number of survey numbers returned without entry in the Survey records with lists of errors.	Arrears at the end of the year.	Remarks.
Thar Parkar ...	6	1,719	1,173	546	.....	
Nawabshah ...	8	907	503	404	.....	
Karachi ...	10	1,867	154	818	.....	
Hyderabad ...	7	2,718	1,026	1,692	.....	
Sukkur ...	8	2,418	1,072	1,346	.....	
Larkana ...	11	1,636	667	969	.....	
Upper Sind Frontier ...	5	768	484	284	.....	
Total for 1920-21 ...	55	12,033	5,979	6,054	.....	
Total for 1919-20 ...	55	16,772	8,481	8,291	.....	

APPENDIX D.

Statement showing the test of Tapadars' and Supervising Tapadars' inspection work by Subdivisional Officers in the Province during 1920-21.

Name of district.	Number of dehs.		Number of dehs in which boundary marks repair was examined.	Number of survey numbers in which crops and tenancy record was checked.		Number of dehs in which birth and death registers were checked.	Number of entries checked in Village Forms 1-C and 1-D.	Remarks.
	Total in the district.	Number visited during the year.		Tapadars' work.	Supervising Tapadars' work.			
1	2	3	4	5	6	7	8	9
Karachi ...	798	524	27	8,308	2,559	165	1,317	
Hyderabad ...	923	704	107	15,156	3,804	920	5,598	
Thar Parkar ...	963	795	61	23,510 A. g. +219 24 bigoti measurement.	5,781 A. g. +98 15 bigoti measurement.	344	12,069	
Larkana ...	749	542	92	29,997	8,311	287	20,464	
Nawabshah ...	761	478	132	11,067	2,841	137	2,539	
Sukkur ...	691	401	33	13,636	7,191	118	2,018	
Upper Sind Frontier ...	430	312	54	5,542 A. g. +304 20 bigoti measurement.	1,334	86	1,010	
Total ...	5,315	3,756	506	1,07,216 A. g. +524 4 bigoti measurement.	31,821 A. g. +98 15 bigoti measurement.	1,356	53,915	

D. MacLACHLAN,
for Commissioner in Sind.

BOMBAY: PRINTED AT THE GOVERNMENT CENTRAL PRESS.

Department of Land Records.

Annual Report of the —— for the year 1920-21.

GOVERNMENT OF BOMBAY.

Revenue Department.

Resolution No. P.-62.

Secretariat, Fort, Bombay.

Dated the 15th June 1922.

Letter from the Settlement Commissioner and Director of Land Records No. A.D.-104 dated 10th February 1922——Submitting for approval a proof copy of the Report of the Department of Land Records in the Bombay Presidency for the year 1920-21; and making remarks.

Government memorandum No. P.-62 dated 7th March 1922 to the Settlement Commissioner and Director of Land Records.

Letter from the Settlement Commissioner and Director of Land Records No. A.D.-104 dated 26th April 1922.

RESOLUTION.——With the exception of the Thana District Survey Office the results of the working of all other officers are on the whole good——those of the Central Record Office, Ahmedabad, being quite satisfactory. As regards Thana the Settlement Commissioner and Director of Land Records should be requested to take prompt measures for improving the work, the outturn of which is at present poor.

2. Although measurement work has increased in almost all districts there is a proportionate increase in the outturn except in Thana which shows heavy arrears owing mainly to the inefficiency and insufficiency of the measuring staff and want of proper supervision. The Director of Land Records should see that this is remedied at once. Government notice with satisfaction the arrangements made by him with a view to the figures of measurement being reported in future in a uniform manner from all the districts.

3. The strike of talatis has been the cause of a decline (i) in the work of Circle Inspectors in the checking of the Record of Rights, (ii) in the inspection work of Sub-Divisional officers and Mamlatdars, (iii) in the receipts of fees for measurement of

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sub-divisions in Kolaba and Ratnagiri, and (iv) in the number of verifications by talatis of Kabjedars' names written on the sheets by the plane tablers in almost all the districts of the Southern Division. But in spite of the strike the measurement of sub-divisions of Survey Nos. was greater than in the previous year.

4. Good progress has been made in City Surveys during the year under report and the maintenance work is going on satisfactorily.

5. The Governor in Council is pleased to record the good work done by the members of the Land Records Department mentioned by the Director.

By order of the Governor in Council,

SHAMRAO D. MANKAR,

Under Secretary to Government.

To

The Commissioner in Sind,
The Commissioner, N. D.,
The Commissioner, C. D.,
The Commissioner, S. D.,
The Commissioner, Bombay Suburban Division,
All Collectors, including the Deputy Commissioner, Upper Sind Frontier,
The Settlement Commissioner and Director of Land Records,
The Accountant General,
The Director of Information,
A. W. W. Mackie, Esquire, I. C. S.,
The Under Secretary of State for India (by letter).

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